STATE OF CALIFORNIA

OUTDOOR AIR ACCEPTANCE

CEC-NRCA-MCH-02-A (Revised 01/19) COMMISSION

CALIFORNIA ENERGY

SHOT CALLON
ENERGY COMMISSION

CERTIFICATE OF ACCEPTANCE Outdoor Air Acceptance Project Name: Enforcement Agency: Permit Number:				
Project Name: Enforcement Agency: Permit Number:				
Project Address: City: Zip Code:				
System Name or Identification/Tag: System Location or Area Served:				
Compliance Results: Enforcement Agency Use: Initial/Date				
Radio-Button("Complies" or "Does Not Comply")				
Verify measured outside airflow reading is within 10% of the total required outside airflow. Required for all newly installed HVAC				
units. Reference NRCC-MCH-03-E (Column 14).				
Intent: Submit one Certificate of Acceptance for each system that must demonstrate compliance.				
NRCA-MCH-02-A can be performed in conjunction with NRCA-MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing				
activities overlap.				
A. Construction Inspection				
Building: Floor: Room/Area/Zone: Control/System:				
Prior to Functional Testing, verify and document all of the following				
1. Required Documentation (all must be checked).				
□ a. NRCC-MCH-03-E as approved by the authority having jurisdiction is available for reference.				
2. System type –Select either Constant Air Volume (CAV) or Variable Air Volume (VAV) below:				
□ a. VAV only:				
i. Outside airflow is either factory calibrated or field calibrated (select one below).				
☐ A Check if factory calibrated and attach calibration certification. (NA 7.5.1.1.1 (a))				
☐ B Check if field calibrated and attach calibration results. (NA 7.5.1.1.1(b))				
ii. Damper Control (all must be checked):				
☐ A Dynamic damper control is being used to control outside air. (NA 7.5.1.1.1 (c))				
□ B Dynamic damper is NOT a fixed minimum damper. (NA 7.5.1.1.1, §120.1(f)2) iii. Identify the dynamic control being utilized to control outside air. (NA 7.5.1.1.1 (d))				
Describe control:				
□ b. CAV only (all must be checked):				
i. System is designed to provide a fixed minimum outside air when the unit is on. (NA 7.5.1.2.1 (a))				
☐ ii. Minimum position is marked on the outside air damper. (NA 7.5.1.2.1 (d))				
☐ iii. The system has means of maintaining the minimum outdoor air damper position. (NA 7.5.1.2.1 (e))				
3. Method of delivering outside air to the heating or cooling unit (select one of the following): (NA 7.5.1.1.1 (e), NA 7.5.1.2.1 (b))				
Return Plenum Ducted: Confirm that outside air is ducted to within 5 or 15 ft. of the heating or cooling unit as specified by				
NRCC-MCH-03-A. (§120.1(e)1 &2)				
Direct Unit Ducted. Return air plenum is NOT used to distribute outside air to the heating or cooling unit. (i.e. outside air is				
ducted directly to the unit, outside air is provided independent of the unit, or economizer).				
4. Pre-occupancy Purge				
a. Verify that the pre-occupancy purge has been programmed for the 1-hour period immediately before the building is normally				
occupied to provide ventilation as indicated on NRCC-MCH-03-A. (VAV - NA 7.5.1.1.1 (f), CAV - NA 7.5.1.2.1 (c), §120.1(d)2) Construction Inspection Compliance Results: AUTOMATED ("Complies" or "Does Not Comply")				

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CERTIFICATE OF ACCEPTANCE		NRCA-MCH-02-A
Outdoor Air Acceptance		(Page 2 of 3)
Project Name:	Enforcement Agency:	Permit Number:
Project Address:	City:	Zip Code:
System Name or Identification/Tag:	System Location or Area Served:	

B. Funct	ional Testing				
Building:		Floor:	Room/Area/Zone:	Control/System:	
Steps	T			CAV	VAV
Step 1:		ol ventilation (if applicable)			
Step 2:		nomizer mode during test (econom p 1, CAV – NA 7.5.1.2.2 Step 1)	izer disabled)		
Step 3:	CAV and VAV testing at				
a.	Adjust supply air to ach	nieve design airflow or maximum air	flow at full cooling.		
b.	Measured outdoor airf	low reading (cfm) p 2a, CAV – NA 7.5.1.2.2 Step 2a)		cfm	cfm
C.	Required outdoor airflo (refer to NRCC-MCH-03			cfm	cfm
d.	Time for outside air damper to stabilize after full supply airflow is achieved (minutes):				min
Step 4:	VAV testing at reduced	supply airflow			
a.		o either the sum of the minimum zo a airflow. (NA 7.5.1.1.2 Step 3)	ne airflows, full heating, or		
b.					cfm
C.	Required outdoor airflow (cfm)				cfm
d.	Time for outside air damper to stabilize after reduced supply airflow is achieved				
Step 5:					
Step 6:	Calculations				
Determin	ne Percent Outside Air at	full supply airflow (${\rm \%OA_{FA}}$) for Step	3. <u>(§120.1(f)1)</u>		
a.	%OA _{FA} = Measured outdoor airflow reading /Required outdoor airflow. (Step3b/Step3c)		door airflow. (Step3b/Step3c)	%	%
b.			110%)	P / F	P / F
c.					P / F
VAV only	Determine Percent Outs	side Air at reduced supply airflow (%	6OA _{RA}) for Step 4. <u>(§120.1(f)2)</u>	•	
a.	%OA _{RA} = Measured out (Step4b/Step4c)	door airflow reading /Required out	door airflow reading.		%
b.	%OA _{RA} is within 10% of	10%)		P / F	
c.	c. Outside air damper position stabilizes within 5 minutes. (Step 4d < 5 minutes)				P / F
Function	nal Testing Compliance	Results: AUTOMATIC ("Complie	es" or "Does Not Comply")		

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CALIFORNIA ENERGY

ENERGY COMPLISION	TOT CALLO
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CERTIFICATE OF ACCEPTANCE NRCA-MCH-02-A				NRCA-MCH-02-A	
Outdoor Air Acceptance			(Page 3 of 3)		
Project Name:	Enforcement Agency:		Permit Number:		
Project Address:	City:		Zip Code:		
System Name or Identification/Tag:	System Location or	Area Served:			
DOCUMENTATION AUTHOR'S DECLARATION STATEMEN	IT				
1. I certify that this Certificate of Acceptance documen	ntation is accura	ate and complete.			
Documentation Author Name:		Documentation Author Signature:			
Documentation Author Company Name:		Date Signed:			
Address:		ATT Certification Identification (If applicab	le):		
City/State/Zip:	Phone:				
FIELD TECHNICIAN'S DECLARATION STATEMENT					
 I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Acceptance is true and correct. I am the person who performed the acceptance verification reported on this Certificate of Acceptance (Field Technician). The construction or installation identified on this Certificate of Acceptance complies with the applicable acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and signed by the responsible builder/installer and has been posted or made available with the building 					
permit(s) issued for the building. Field Technician Name:		Field Technician Signature:			
Field Technician Company Name:	Position with Company (Title):				
Address:	ATT Certification Identification (if applicab	le):			
City/State/Zip:	Phone:	Date Signed:			
RESPONSIBLE PERSON'S DECLARATION STATEMENT					
 I certify the following under penalty of perjury, under the laws of the State of California: I am the Field Technician, or the Field Technician is acting on my behalf as my employee or my agent and I have reviewed the information provided on this Certificate of Acceptance. I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Acceptance and attest to the declarations in this statement (responsible acceptance person). The information provided on this Certificate of Acceptance substantiates that the construction or installation identified on this Certificate of Acceptance complies with the acceptance requirements indicated in the plans and specifications approved by the enforcement agency, and conforms to the applicable acceptance requirements and procedures specified in Reference Nonresidential Appendix NA7. I have confirmed that the Certificate(s) of Installation for the construction or installation identified on this Certificate of Acceptance has been completed and is posted or made available with the building permit(s) issued for the building. I will ensure that a completed, signed copy of this Certificate of Acceptance shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Certificate of Acceptance is required to be included with the documentation the builder provides to the building owner at occupancy. Responsible Acceptance Person Name:					
City/State/Zip:	Phone:	Date Signed:			